I. COURSE: Special Topics: Marine Science Field Camp 5 semester hours (3:4)
Lecture: May 15-May31 excluding weekends & Holidays  Room TBD
Laboratory: Campus: CS 240; LMFS
Field Camp: LMFS

II. FACULTY:
Dr. Roy L. Lehman  CS 247
Phone: 825-5819  roy.lehman@tamucc.edu

III. COURSE DESCRIPTION:
This is a two week field camp that includes a five day field research expedition at the Laguna Madre Field Station. Students will develop an understanding of the diversity of coastal habitats and learn the common flora, and fauna of the Texas Laguna Madre while participating in field research projects. Prerequisite: Permission of instructor.

IV. TEXTBOOK:
**Required:**

*Marine Science Field Camp* Class and Laboratory Manual (Digital Version) Compiled by Roy L. Lehman. Includes supplemental readings as PDF’s. Offered as a free download by Dr. Lehman.

V. STUDENT LEARNING OUTCOMES:
The student will:

*describe the ecological and environmental properties which effect the growth, physiology and distribution of marine organism in the Laguna Madre.

*identify the common flora and fauna that is associated with the Laguna Madre and explain each group’s role in the overall community structure and function.
*engage in field research activities: including collecting, evaluating data and reporting on results, both written and oral,

*describe techniques of field sampling, the proper use of research equipment and display accurate field and laboratory note taking skills,

*evaluate and describe human influences on coastal environments.

*discuss and explain methods of management of marine systems.

VI. COURSE REQUIREMENTS AND GRADING CRITERIA:

Evaluation is ongoing to enhance experimental learning, providing the student with feedback about performance in meeting the course objectives. Conferences with the faculty provide opportunities to discuss progress toward the course objectives. Grading is a process of measuring the outcome of learning against standards and assigning a symbol to the level of performance achieved.

All students are expected to conform to college-level standards of ethics, academic integrity, grammar and spelling. In particular, you should review the current Texas A&M-CC university catalog. Except in cases where prior arrangements have been made with the instructor, there is no provision for making up late work and/or missed quizzes or exams. All excuses MUST be recorded with the professor by e-mailing information including the student’s name, class, date, time and reason for the absence. Two or more absences from class/field activities may result in an unsatisfactory grade for the class.

Disability and Veterans’ Services: Texas A&M University-Corpus Christi is committed to providing persons with disabilities an equal opportunity to access campus facilities, resources and programs. The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. Support and accommodations are also available for returning veterans who experience cognitive and/or physical access issues in the classroom or on campus. Our Office of Disability Services arranges such support and academic accommodations. To make a request, or for more information, call (361) 825-5816 or visit Driftwood 101. It is important to contact the Office of Disability Services in a timely fashion as it will take time for them to review requests and prepare accommodations and accommodation letters.

Grade Appeals: As stated in the Texas A&M University-Corpus Christi University Rules and Procedures (Section B [Academic Program], Part 13 [Students]: 13.02.99.C2 [Student Grade Appeals] and 13.02.99C2.01 [Student Grade Appeal Procedures]), a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is on the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, consult the University Rules and Procedures specified above (accessible through the University Rules and Procedures website at http://www.tamucc.edu/provost/university_rules/index.html). For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

Dropping a Class: I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the class be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class.
Required Equipment/Materials for the class/laboratory/field trips:

<table>
<thead>
<tr>
<th>Equipment/Materials</th>
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</thead>
<tbody>
<tr>
<td>Snorkeling equipment</td>
</tr>
<tr>
<td>Dissecting Kit</td>
</tr>
<tr>
<td>Pocket Knife</td>
</tr>
<tr>
<td>Field clothes &amp; shoes</td>
</tr>
<tr>
<td>Field Notebook</td>
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<tr>
<td>Zip Loc Bags</td>
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FIELD/LABORATORY REQUIREMENTS

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>1. Students will complete an introductory research project approved by the professor or engage in a current graduate research project being conducted in the Laguna Madre.</td>
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<tr>
<td>2. Students will be evaluated on the following field activities:</td>
<td></td>
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<tr>
<td>Field Journal</td>
<td>100</td>
</tr>
<tr>
<td>Field/Laboratory Practical</td>
<td>100</td>
</tr>
<tr>
<td>Field Research Paper</td>
<td>300</td>
</tr>
<tr>
<td>Field Research Seminar</td>
<td>100</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td>600</td>
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</tbody>
</table>

VII. COMPONENTS OF COURSE GRADE:

<table>
<thead>
<tr>
<th>Component</th>
<th>VALUE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Examination</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Field/Laboratory Practical</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Field Research Paper</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Field Journal</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Field Research Seminar</td>
<td>100</td>
<td>100</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td>800</td>
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**FINAL GRADE:** Total Number of points ÷ 800 = FG (%)

Grades Assigned as Follows:
A = 90% or greater
B = 80-89%
C = 70-79%
F = <70%

FINAL EXAMINATION DATE: May 31, 2013
VIII. LECTURE TOPICS

A. INTRODUCTION 1 Day
1. Marine organisms of the Laguna Madre (Introduction)
2. Overview of major habitat types found in the Laguna Madre

B. ECOLOGICAL AND ENVIRONMENTAL PROPERTIES OF THE LAGUNA MADRE 1 Day
1. Geological Factors and Descriptions
2. Hydrological (Physical) Factors
3. Chemical Factors
4. Ecology and Geographic Distribution
5. Research & Writing Skills (Introduction)

C. STUDY OF GROUPS OF ORGANISMS – FIELD TRIP - 4.5 Days
1. Plants of the Laguna Madre
2. Plankton Populations of the Laguna Madre
3. Estuarine Invertebrates of the Laguna Madre
4. Estuarine Vertebrates of the Laguna Madre
5. Birds associated with the Laguna Madre

D. FOLLOW-UP FIELD CAMP RESEARCH – 4 DAYS LEC. & LAB
1. Research Skills
2. Ecological Statistics
3. Presentation Skills (power point)
4. Writing Skills
5. Final Exams & Seminar